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Seismic trace Interpolation.

dip range analysis is disclosed. A series of dip range are defined by a plurality of dips. A trace estimate for each of the dip ranges is generated by filtering with a mathematically integrated time shift in each frequency component of each selsmic trace appearing in the dip range. These filtered frequency components may then be passed through a low pass filter. The sum of the filtered frequency components is the trace estimate. The seismic traces are then demodulated to obtain the trace envelopes whose values along the above mentioned dips are examined for continuity. A continuity factor is developed for each dip and then each of the continuity factors is summed and the sum divided by the number of continuity factors to obtain a weighting function. The weighting functions are multiplied with the trace estimates, and the results summed to obtain the interpolated trace.

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EUROPEAN SEARCH REPORT

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Category	Citation of document with in of relevant pa	edication, where appropriate,	Relevant to child	CLASSIFICATION OF THE APPLICATION (Int. CL5)	
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